

WATER/WASTEWATER TREATMENT PLANT OPERATOR

DISTINGUISHING FEATURES

The fundamental reason the Water/Wastewater Treatment Plant Operator position exists is to perform journeyman-level operational tasks involved in the operation and maintenance of the City's water and wastewater treatment plant equipment and processes. Works to maximize efficient operation of 1.7 mgd and 12 mgd water reclamation facilities, an 11 mgd advanced water treatment facility and a 50 mgd surface water treatment plant. This classification is non-supervisory and works under general supervision. This position reports to the Water/Wastewater Treatment Senior Operator.

ESSENTIAL FUNCTIONS

Maintain and operate plant equipment and processes related to water, wastewater and advanced water treatment systems on an assigned shift. Prioritize activities between the different treatment facilities and systems including the operation of valves, gates, pumps and machinery manually, locally in automatic mode or remote via computerized control strategy in order to maintain proper facility operation. Assume responsibility of all operations of assigned treatment facility while on assigned shift.

Sample and analyze influents/effluents, source water/product water, feed water and permeate in order to detect quality variations, interpret laboratory results, reading sheets, process test, computerized data and information trends in order to identify variations in flow and water quality and make appropriate changes.

Oversee operation of an assigned treatment facility in order to maintain day to day operation necessary to meet all required local, state and federal regulations pertaining to the production of reuse, ground injection and potable water and comply with prescribed operating and safety standards.

Work with highly hazardous chemicals such as chlorine, sulfuric acid and sulfur dioxide following strict ADOSH and Water Resources departmental guidelines.

Uses a variety of standard testing procedures to determine problems and any adjustments needed in the treatment process.

Conducts tours of facilities; responds to plant emergencies; and maintains a safe, clean and orderly work environment.

Must have sufficient self-motivation to continuously enhance one's own job knowledge and to participate in the treatment plant's continuous improvement process.

Ability to listen and communicate effectively with a diverse group of people.

Attendance and punctuality are essential functions of this position.

MINIMUM QUALIFICATIONS

Knowledge, Skills, and Abilities

Knowledge of:

Chemical/physical and biological processes used in water and wastewater treatment processes such as coagulation, flocculation, settling, sedimentation, filtration, disinfection and activated sludge.

Laboratory practices required to properly evaluate treatment processes such as BOD, DO, pH, jar test, CL2 residual, turbidity, COD, color, hardness, TSS, TDS, fecal coliforms, and total coliforms.
OSHA guidelines related to large water and wastewater treatment facilities.

Ability to:

Work rotating shifts, weekends and a call-out schedule.

Establish and maintain effective working relationships with co-workers, supervisors, and the general public.

Operate equipment used in a modern conventional water or wastewater treatment plant.

Perform laboratory procedures and maintenance functions requiring manual dexterity and precision movements.

Perform all routine operator functions.

Determine processing requirements; sample the influent and effluent at various stages of processing and identify problems and ensure proper and efficient operation of the treatment plant

Operate a variety of equipment and machinery requiring continuous or repetitive arm and hand movements.

Enter data or information into a terminal, PC or other keyboard device.

Communicate effectively both verbally and in writing.

Prioritize schedule and work tasks and complete work within specified time periods and deadlines.

Move and lift heavy objects (100 pounds or more) both short and long distances.

Walk up and down stairs.

Education & Experience

Three years experience in the operation of advanced, complex water and/or wastewater treatment facility and some college or technical training in Water Technology, Sanitary Engineering, Biology, Chemistry, or a related field.

Experience with advanced water treatment systems such as microfiltration and reverse osmosis is highly desirable. Possession of Reverse Osmosis certification is desirable.

Experience with advanced computerized systems utilized in water and/or wastewater treatment facilities.

Experience in mechanical and electrical trouble shooting.

No major driving citations in the last 39 months for all driving positions.

Possession of a Grade II or higher certification from the Arizona Department of Environmental Quality in Water or Wastewater Treatment is required.

A second Grade II certification from the Arizona Department of Environmental Quality must be obtained within one year of hire in the remaining area so that the incumbent has certification in both Water and Wastewater.

FLSA Status: Non-exempt

HR Ordinance Status: Classified